

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Cancel claims 1-15.

16. (new) A control and/or monitoring device, comprising:
at least a first pair of interactive elements including an electronic label and an electronic tag reader in mutual communication by respective radio aerials, the reader being operative to electro-magnetically feed the electronic label with electrical energy, the electronic label having a memory containing an identification code that is specific to the label and that the label selectively transmits to the reader; and a state encoder operative to produce a status signal representative of a logical or analogical state affecting the elements of the first pair of interactive elements, the state encoder including at least a permanent magnet carried by the electronic label and a magnetic field sensor carried by the reader.

17. (new) The control and/or monitoring device according to claim 16, wherein the label is mobile compared to the reader, the status signal being representative of a relative position of the label compared to the reader.

18. (new) The control and/or monitoring device according to claim 17, wherein the state encoder includes a pair of magnetized tracks distant from one another carried by the label and a pair of corresponding Hall effect sensors, carried by the reader, the magnetized tracks being laid out compared to the corresponding Hall effect sensors for a reference relative position of the label compared to the reader and only for this position and, the status signal taking at least two different principal logical values, according to whether the label is, or is not, in a reference relative position compared to the reader.

19. (new) The control and/or monitoring device according to claim 18, wherein the tracks of the pair of magnetized tracks have reversed polarities.

20. (new) The control and/or monitoring device according to claim 19, wherein the label is physically guidable, compared to the reader, between the reference relative position and a plurality of distant positions while passing by at least one of two intermediate relative positions, in each one of which only one magnetized track is detected by a Hall effect sensor, the status signal taking at least two different secondary logical values, according to whether the label is, or is not, in one of the intermediate relative positions.

21. (new) The control and/or monitoring device according to claim 20, wherein the label is guidable in translation movement compared to the reader along a translation axis, the magnetized tracks being distant from one another along the translation axis.

22. (new) The control and/or monitoring device according to claim 21, wherein the magnetized tracks are tilted relative to the translation axis.

23. (new) The control and/or monitoring device according to claim 21, wherein the label is card and the reader is at least partially flat.

24. (new) The control and/or monitoring device according to claim 20, wherein the label is guidable in rotation movement relative to the reader along a rotation axis, the magnetized tracks being angularly distant from one another by rotation around the rotation axis.

25. (new) The control and/or monitoring device according to claim 21, wherein the label has a cylindrical form and the reader is at least partially cylindrical.

26. (new) The control and/or monitoring device according to claim 18, wherein the reader includes a power supply circuit and a pulse shaper belonging to the state encoder and

connected to the Hall effect sensors, and a communication circuit connected to the aerial of the reader.

27. (new) The control and/or monitoring device according to claim 26, wherein the label is physically guidable, compared to the reader, between the reference relative position and a plurality of distant positions while passing by at least one of two intermediate relative positions, in each one of which only one magnetized track is detected by a Hall effect sensor, the status signal taking at least two different secondary logical values, according to whether the label is, or is not, in one of the intermediate relative positions, the communication circuit being operative to selectively adopt at least a passive state and an active state, the status signal making the communication circuit move from its passive state to its active state at the moment of passage of the corresponding label from a distant relative position to an intermediate relative position.

28. (new) The control and/or monitoring device according to claim 16, including several pairs of interactive elements, each one of which pairs includes an electronic label and a tag reader, the readers of the various pairs of interactive elements being connected to a communication network, all the labels of the various pairs having different identification codes.

29. (new) The control and/or monitoring device according to claim 28, and further comprising a polling circuit connected to the communication network and operative to communicate periodically with each reader, each reader being operative to read the identification code of the associated label as far as the reader and the associated label are in their reference relative position, each reader being operative to transmit to the polling circuit the identification code of the associated label as far as it was read, the polling circuit being operative to compare each identification code transmitted to it with a memorized reference code and produces a anomaly signal in the event of the absence of one of the codes to be compared or in case of disparity of the compared codes.